

# X3-20 Portable Power System v2.0

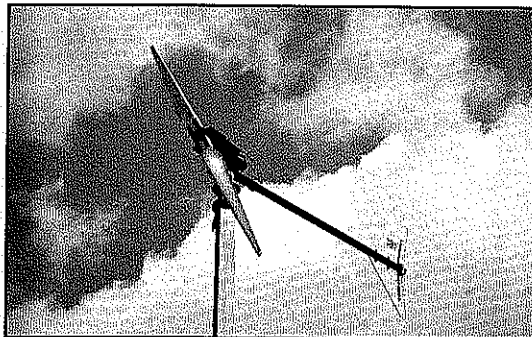
Manufactured by Van Straten Brothers Inc, a premier fabrication shop operating in Baraga since 1964. Find out more at [www.vanstratenbros.com](http://www.vanstratenbros.com).

HUBZone Certified #36199 - U.S. Patent No. 8,295,033 and Other Patents Pending

## VAN STRATEN

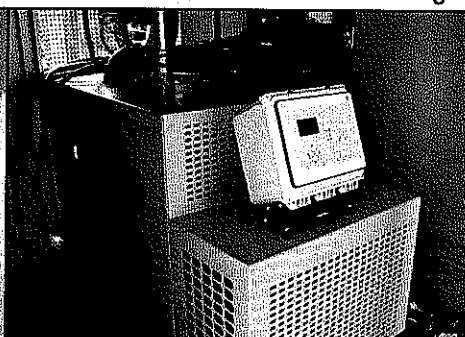
ENTERPRISES, INC.

**X3 Energy Sales and Design**  
Mobile Off-Grid Power - Wind, Solar, and Fuel



### Wind

Wind turbine generates 3kW-10kW. Delivers power directly to application or provides charge to batteries when load is limited.



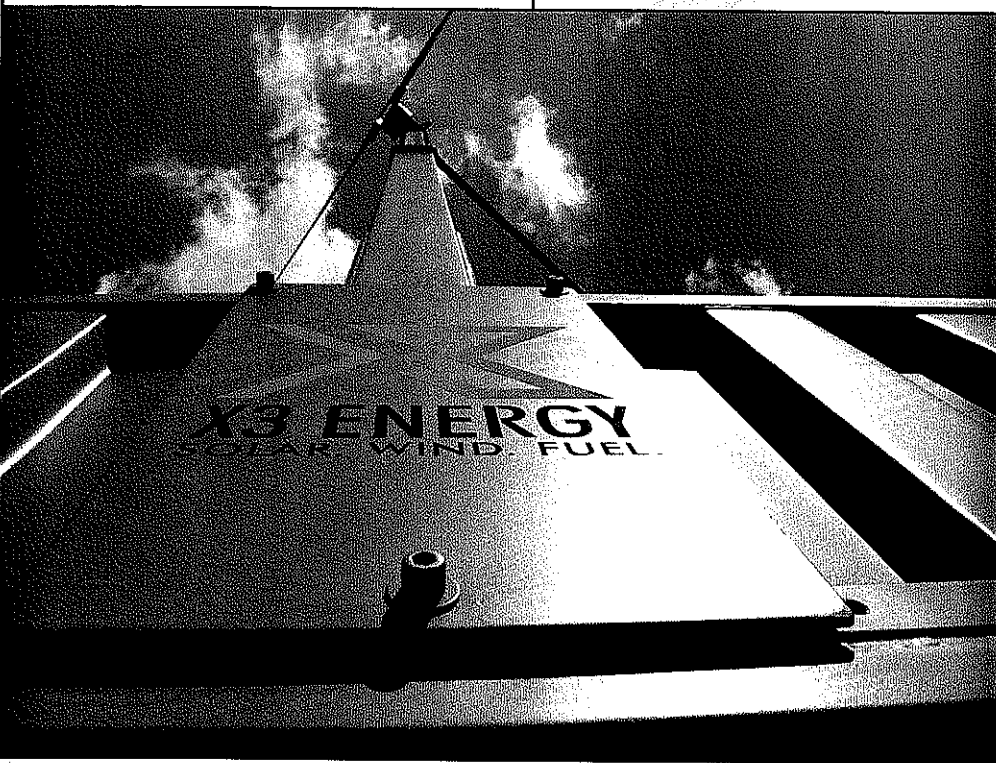
### Generator

15kW single phase to 50kW three phase generator operates at 230V if renewable power is insufficient. "Smart Controls" ensure continuous power generation.



### Solar

Solar panels operate in tandem with wind turbine to supply energy needs. An array of 16 solar panels generates up to 4kW.



### Overview

The X3-20 Portable Power System provides **renewable power** to operations **off the grid**. Our basic unit is capable of providing up to 7kW of renewable power via the solar panels and wind turbines. 48V deep cell batteries and a John Deere generator **ensure power** even when **solar and wind** resources are **limited**.

### Latest Design Features

- Complete operational automation
- Outback Mate 2 Controller
- Increased energy production
- 14.4kW inverters for clean AC Power
- Self-deploying hydraulic outriggers for leveling and stabilization
- Hydraulically deployed turbine boom
- Fully enclosed components within ISO shipping container for convenient transportation and protection against theft and vandalism
- Fast, reliable deployment system

### Rapid Setup and Deployment

Built within a standard ISO shipping container, the X3 is capable of being deployed **anywhere in the world** via truck, ship, train, or plane. Once on location, the X3 can be easily set up by three to four people **within 30 minutes**. Outriggers allow the unit to lift off of a flatbed truck without any special equipment. As soon as the doors of the X3 open up, the array of 16 solar panels is available for power generation, ready to supply a **wide range of applications** including households, pumps, hospital equipment, electronics, and radio transmission towers. The X3 is an ideal source of power in military and disaster relief scenarios.

### Customization

We have a team of mechanical and electrical engineers on staff to customize the X3 to **your specifications**. Call us today about how we can **supply your energy needs**.

### Contact Us

X3 Portable Energy Systems are 100% made in the USA and are produced to customer specification. Contact us with your unique requirements. X3 Energy is a division of Van Straten Brothers, Inc.

**Woman Owned**

Phone: 906.523.7131 Fax: 906.523.7132  
sales@x3energy.net [www.x3energy.net](http://www.x3energy.net)